

FLEXIBLE FABRIC FROM FIBROUS WEB AND DISCONTINUOUS DOMAIN
MATRIX

ABSTRACT OF THE DISCLOSURE

A composite having a plurality of filaments arranged in a fibrous web that is held

5 together in a unitary structure by a domain matrix. The domain matrix comprises a plurality of matrix islands that individually connect, or bond, at least two filaments, to thereby hold the filaments in a unitary structure. Portions of the filament lengths within the unitary structure are free of matrix islands, causing the domain matrix to be discontinuous. The composite possesses a greater flexibility than coated structures.

10 The composite may be formed into cross-plyed structures. A method of making the composite also is disclosed.

PCT/US2013/042205